FIG. 1

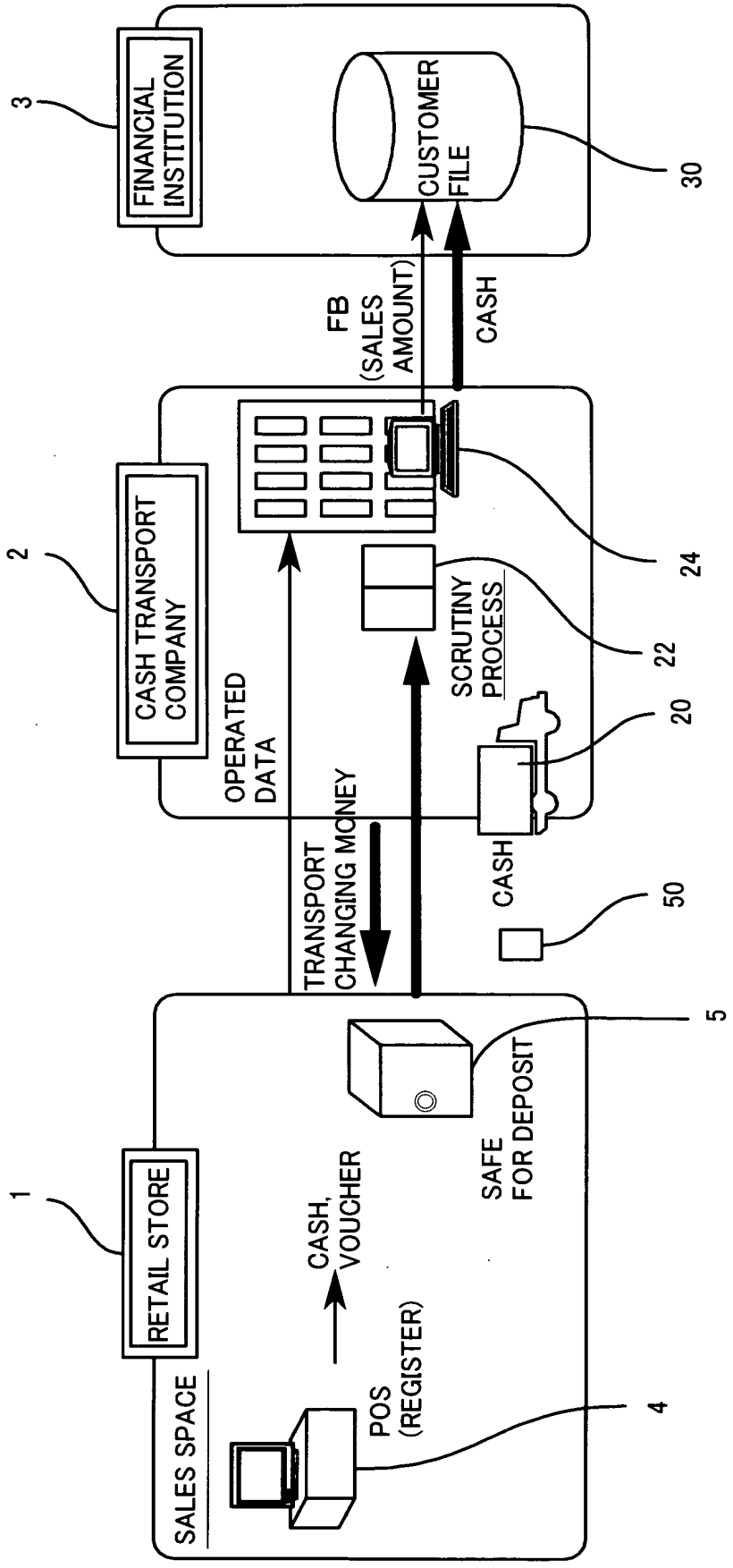

1
RETAIL STORE
SALES SPACE
POS (REGISTER)
4
CASH, VOUCHER
SAFE FOR DEPOSIT
5
TRANSPORT CHANGING MONEY
CASH
50
2
CASH TRANSPORT COMPANY
OPERATED DATA
SCRUTINY PROCESS
22
20
24
FB (SALES AMOUNT)
CASH
3
FINANCIAL INSTITUTION
CUSTOMER FILE
30

FIG. 2

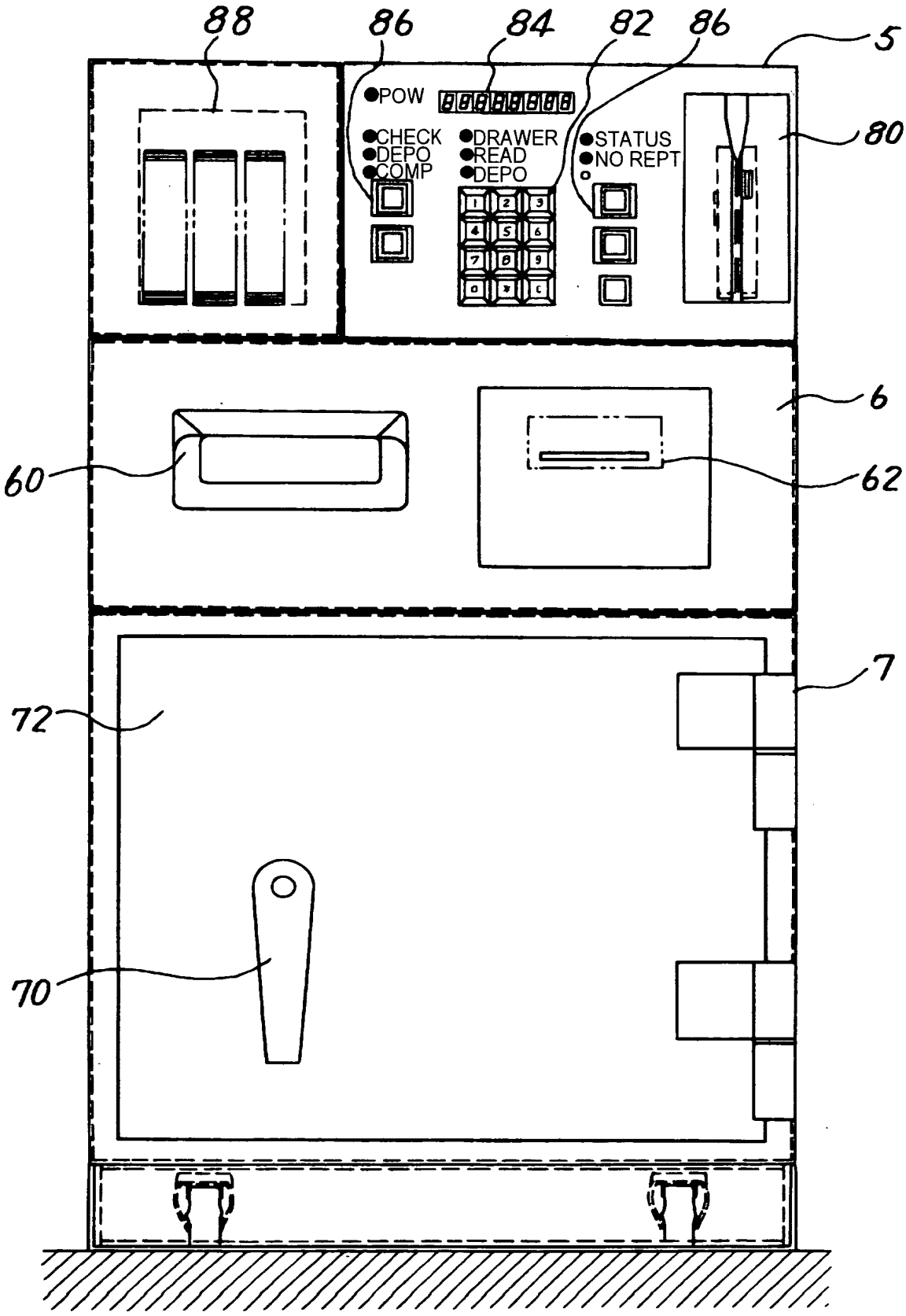
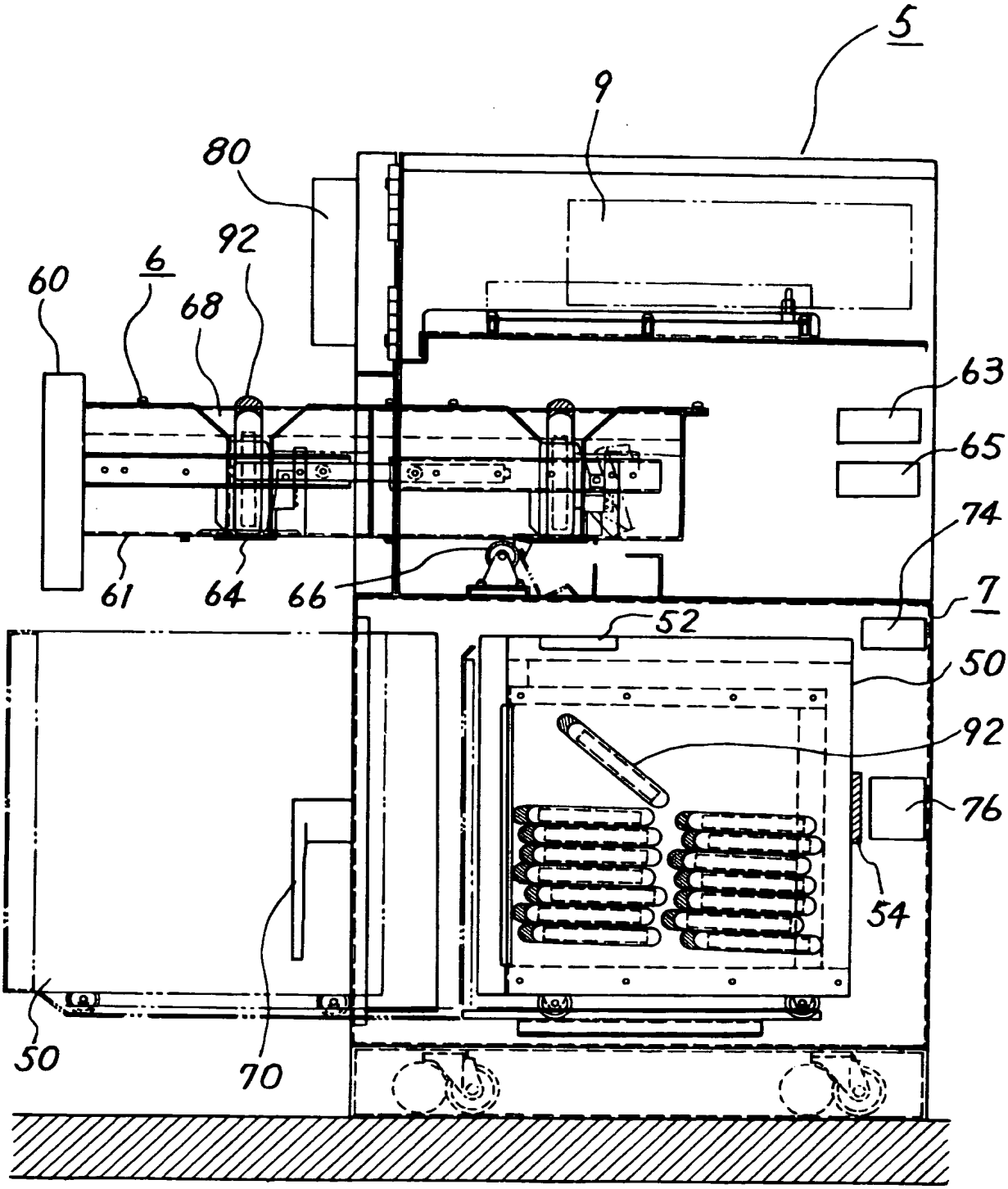

88
86
84
82
86
5
POW
CHECK
DEPO
COMP
DRAWER
READ
DEPO
STATUS
NO REPT
80
6
60
62
7
72
70

FIG. 3



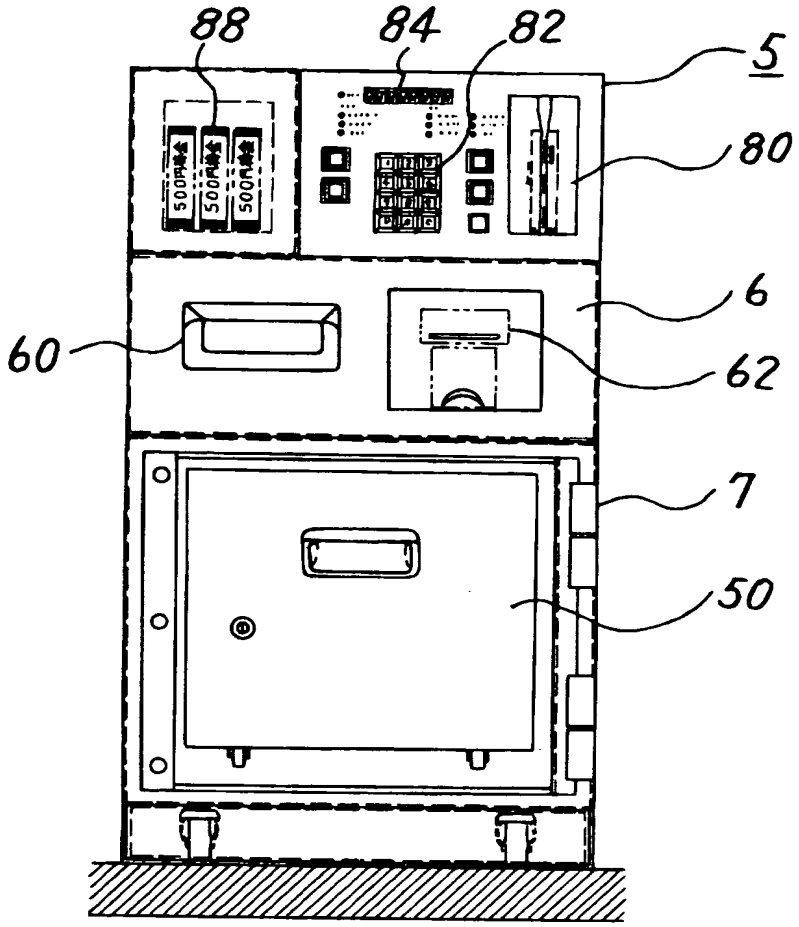


FIG. 4

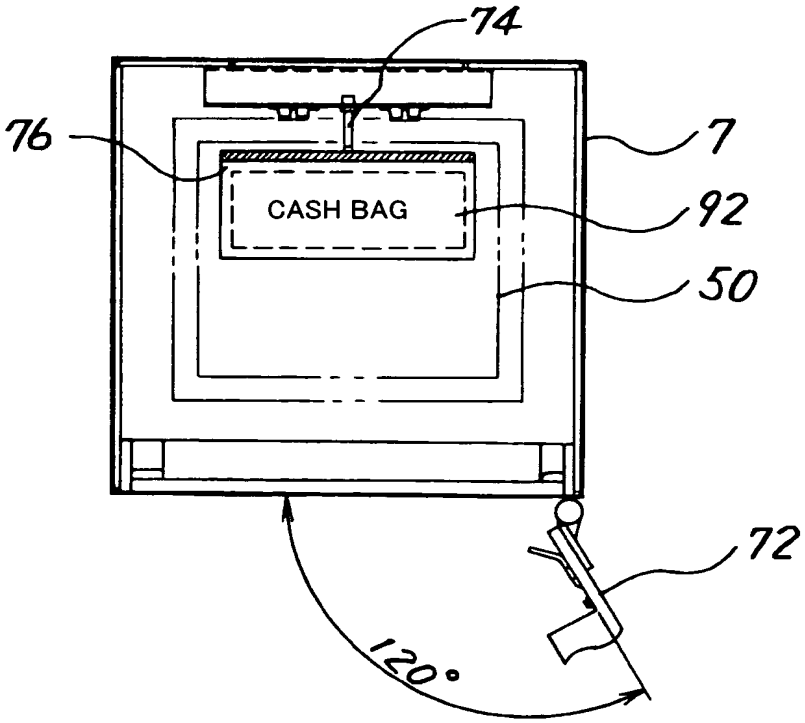


FIG. 5

FIG. 6

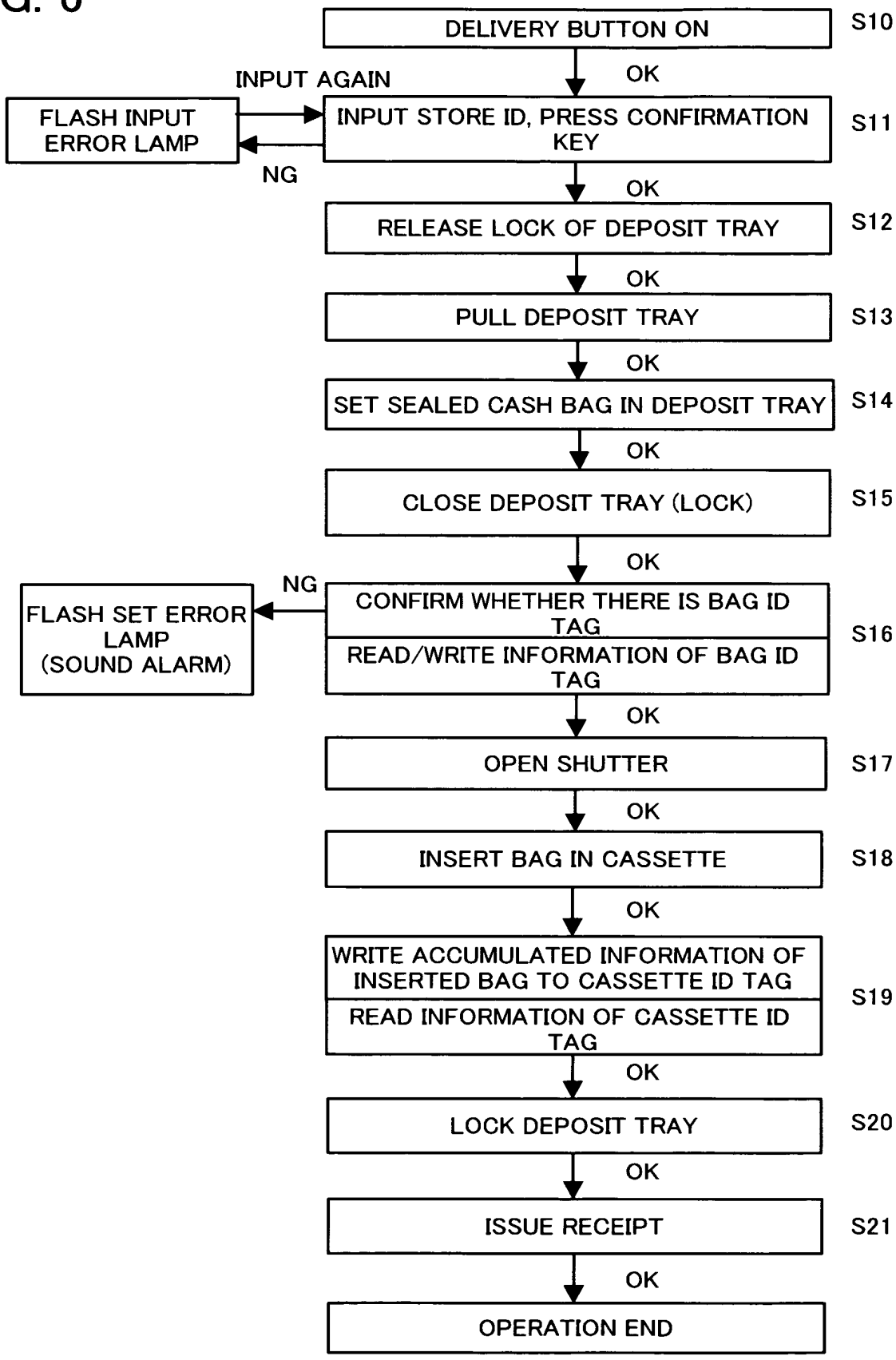

DELIVERY BUTTON ON
S10
OK
INPUT AGAIN
FLASH INPUT ERROR LAMP
INPUT STORE ID, PRESS CONFIRMATION KEY
S11
NG
OK
RELEASE LOCK OF DEPOSIT TRAY
S12
OK
PULL DEPOSIT TRAY
S13
OK
SET SEALED CASH BAG IN DEPOSIT TRAY
S14
OK
CLOSE DEPOSIT TRAY (LOCK)
S15
OK
NG
FLASH SET ERROR LAMP (SOUND ALARM)
CONFIRM WHETHER THERE IS BAG ID TAG
READ/WRITE INFORMATION OF BAG ID TAG
S16
OK
OPEN SHUTTER
S17
OK
INSERT BAG IN CASSETTE
S18
OK
WRITE ACCUMULATED INFORMATION OF INSERTED BAG TO CASSETTE ID TAG
READ INFORMATION OF CASSETTE ID TAG
S19
OK
LOCK DEPOSIT TRAY
S20
OK
ISSUE RECEIPT
S21
OK
OPERATION END

FIG. 7

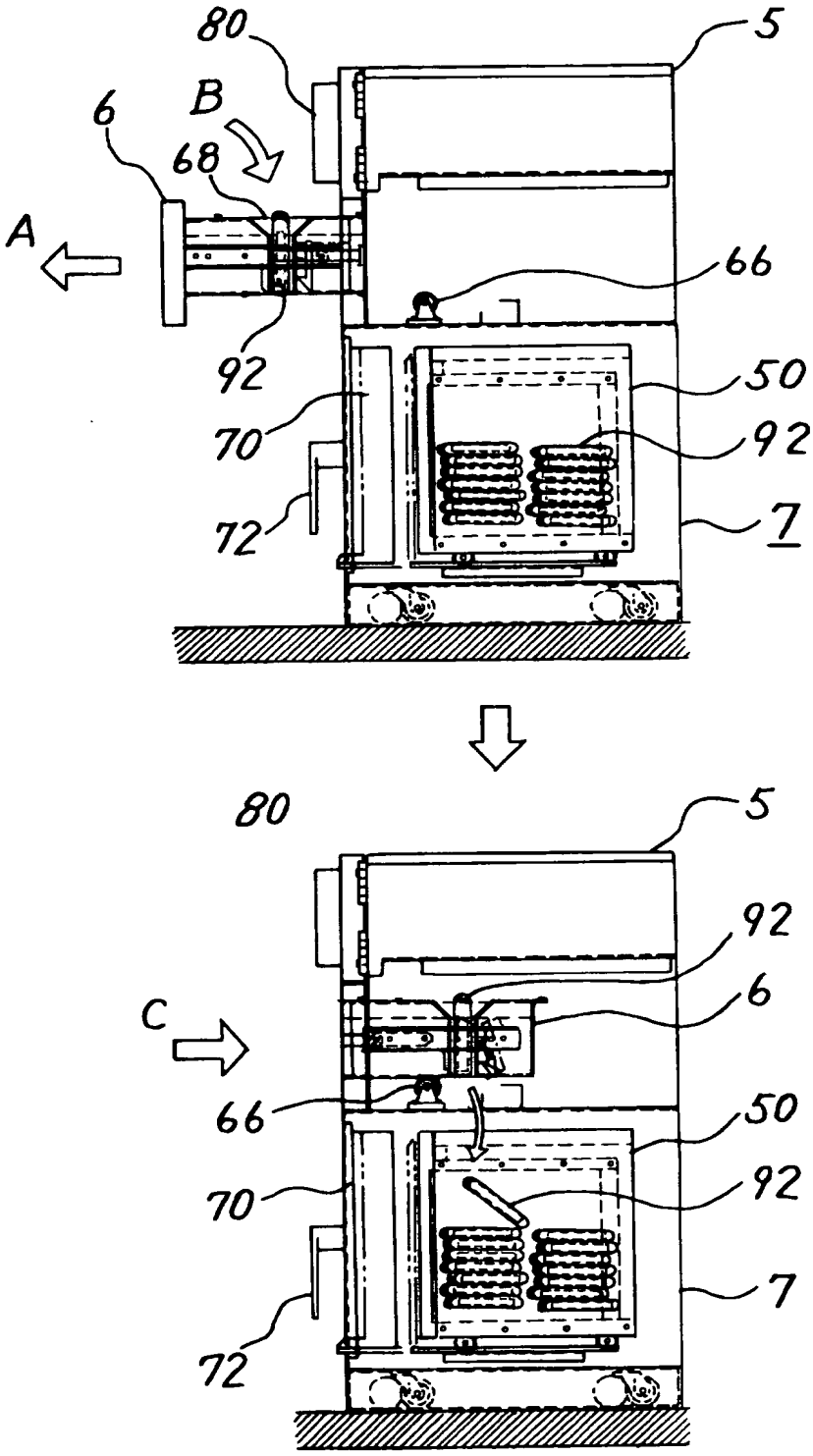


FIG. 8

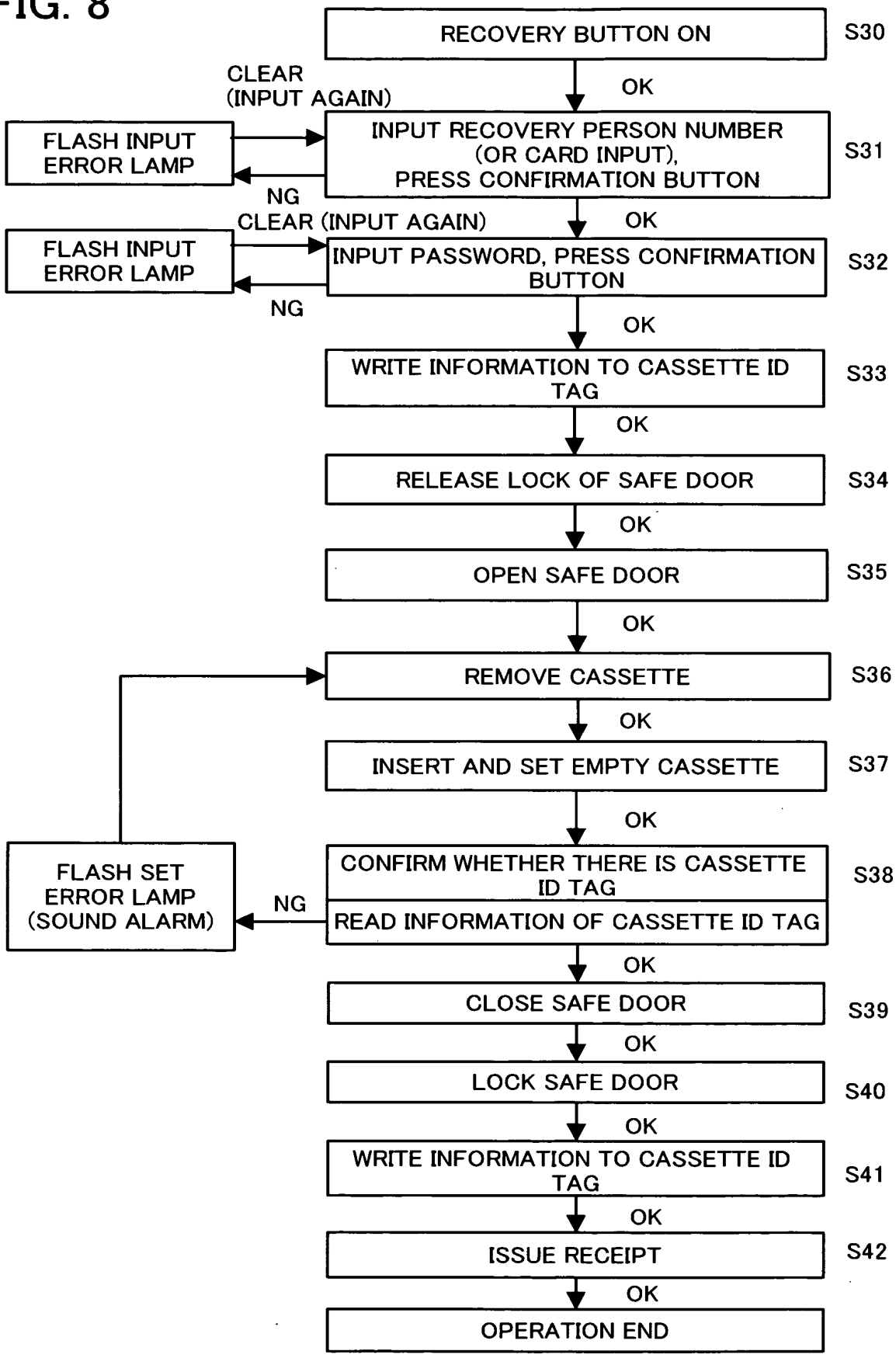

RECOVERY BUTTON ON
S30
OK
CLEAR (INPUT AGAIN)
FLASH INPUT ERROR LAMP
INPUT RECOVERY PERSON NUMBER (OR CARD INPUT), PRESS CONFIRMATION BUTTON
S31
NG
CLEAR (INPUT AGAIN)
OK
FLASH INPUT ERROR LAMP
INPUT PASSWORD, PRESS CONFIRMATION BUTTON
S32
NG
OK
WRITE INFORMATION TO CASSETTE ID TAG
S33
OK
RELEASE LOCK OF SAFE DOOR
S34
OK
OPEN SAFE DOOR
S35
OK
REMOVE CASSETTE
S36
OK
INSERT AND SET EMPTY CASSETTE
S37
OK
FLASH SET ERROR LAMP (SOUND ALARM)
NG
CONFIRM WHETHER THERE IS CASSETTE ID TAG
READ INFORMATION OF CASSETTE ID TAG
S38
OK
CLOSE SAFE DOOR
S39
OK
LOCK SAFE DOOR
S40
OK
WRITE INFORMATION TO CASSETTE ID TAG
S41
OK
ISSUE RECEIPT
S42
OK
OPERATION END

FIG. 9

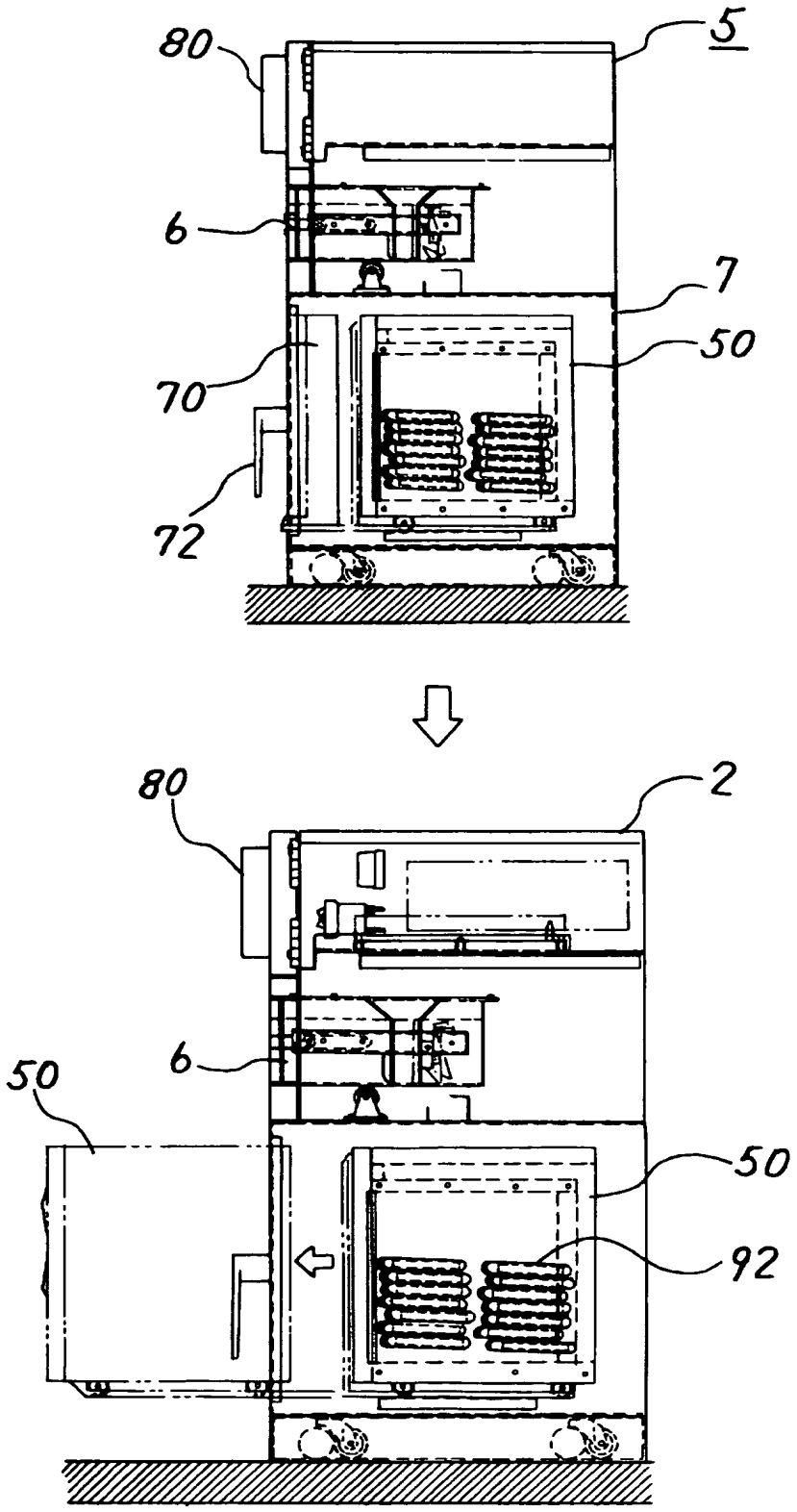
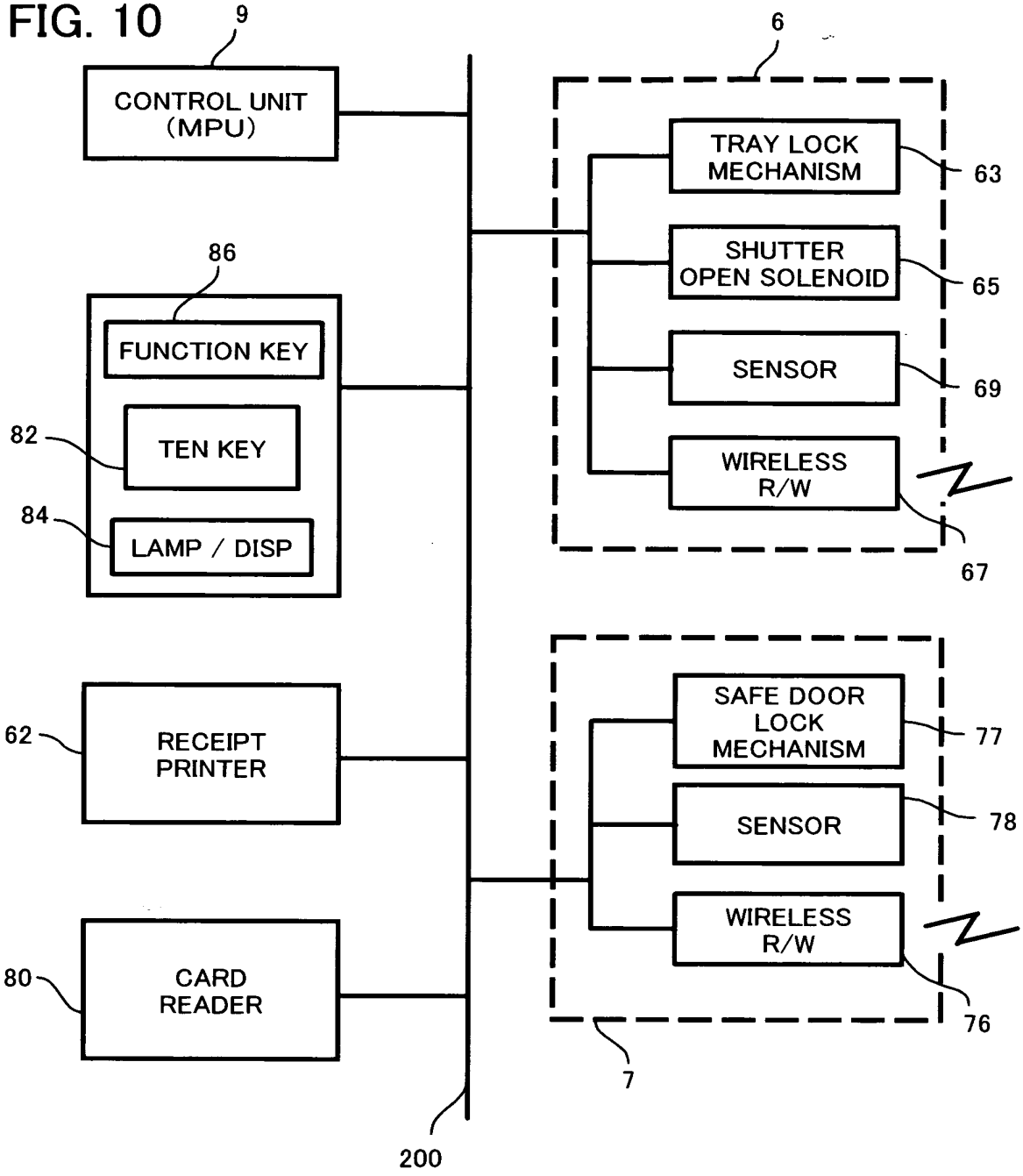


FIG. 10


9
CONTROL UNIT
(MPU)
6
TRAY LOCK
MECHANISM
63
SHUTTER
OPEN SOLENOID
65
SENSOR
69
WIRELESS
R/W
67
86
FUNCTION KEY
82
TEN KEY
84
LAMP / DISP
62
RECEIPT
PRINTER
80
CARD
READER
SAFE DOOR
LOCK
MECHANISM
77
SENSOR
78
WIRELESS
R/W
76
7
200

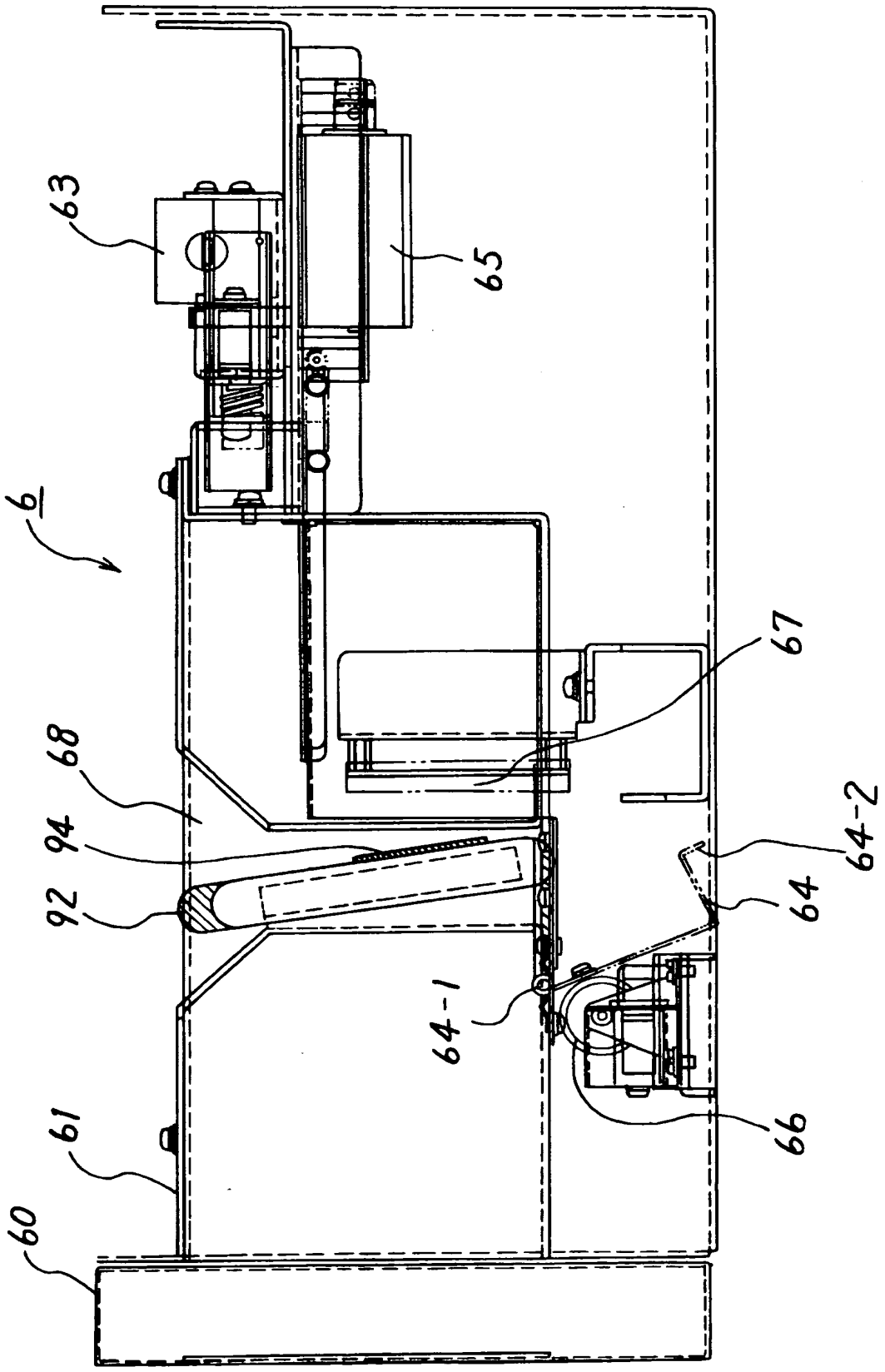


FIG. 11

FIG. 12

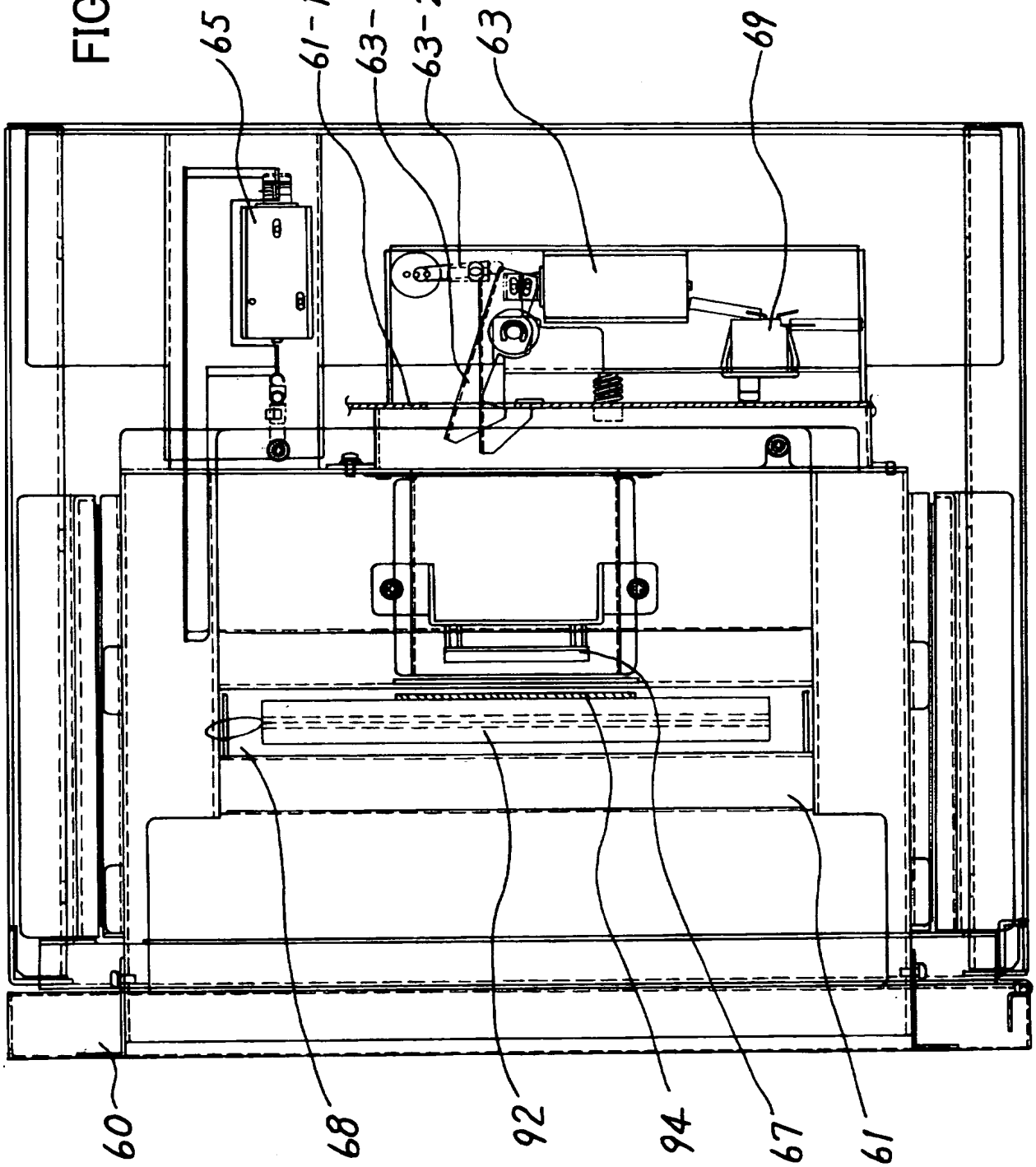


FIG. 13

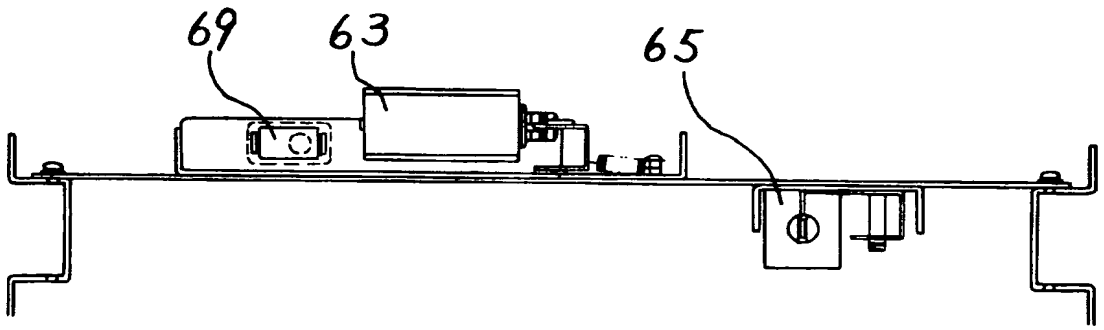


FIG. 14

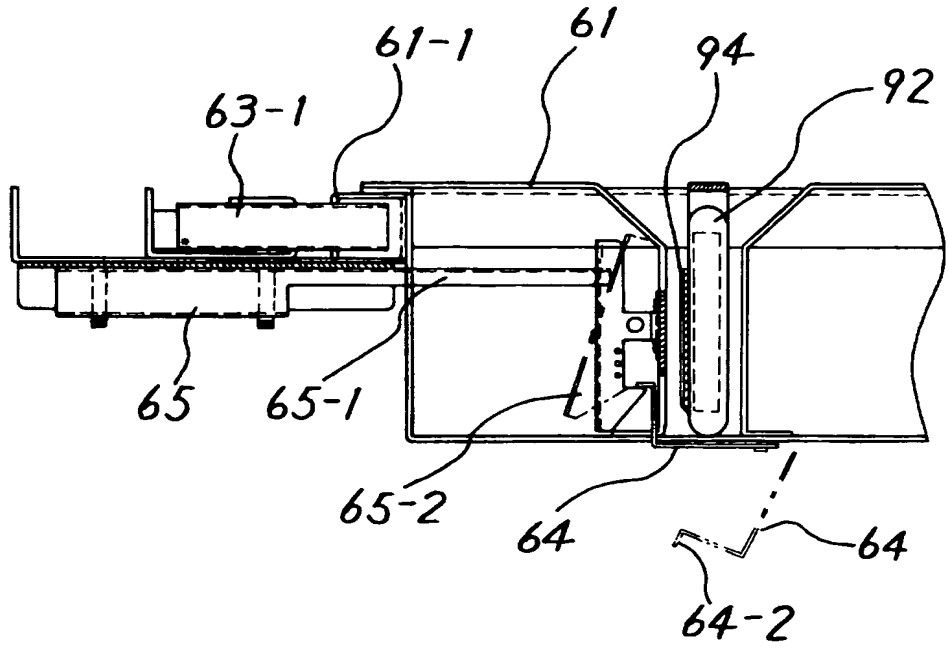


FIG. 15

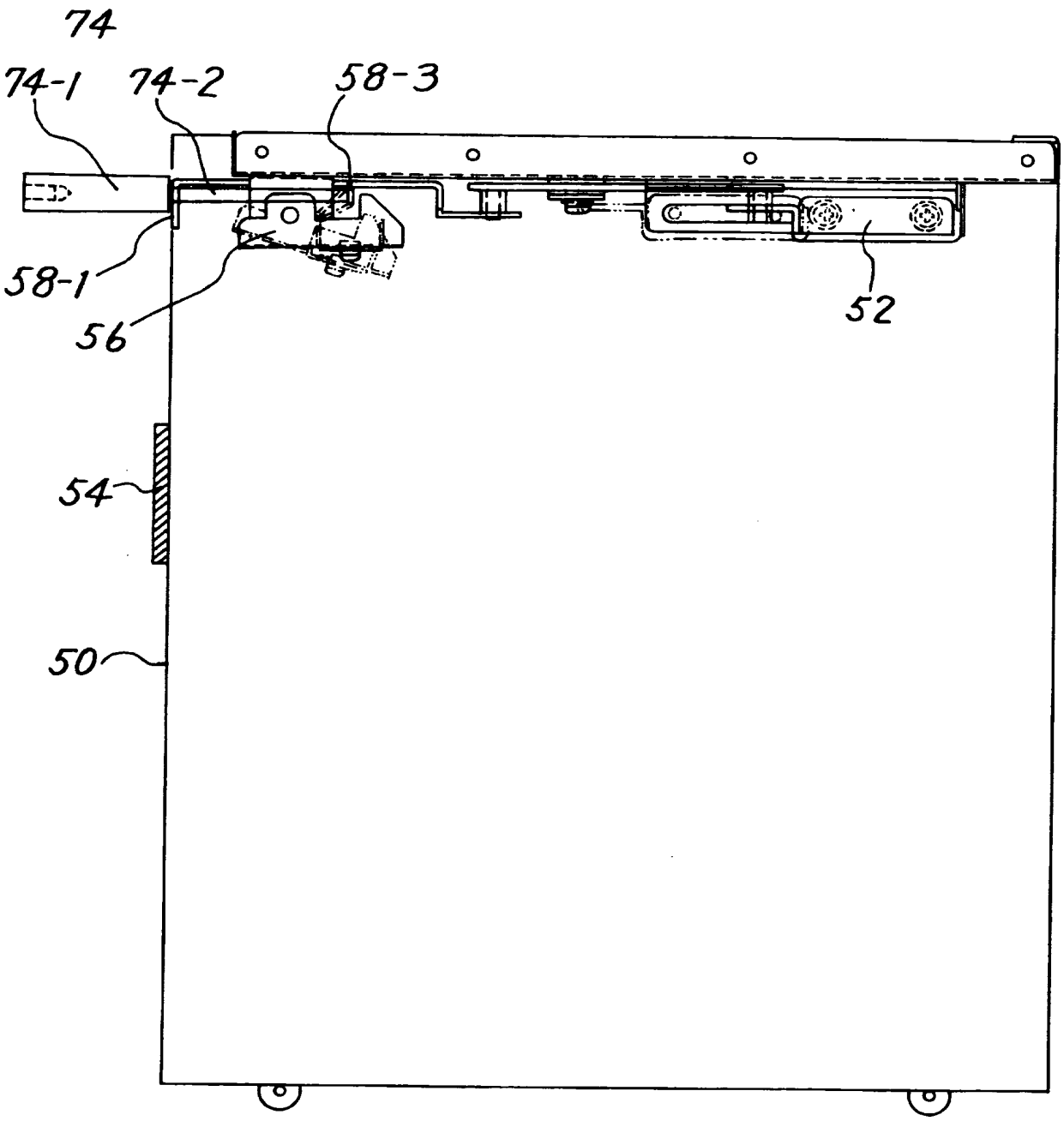


FIG. 16

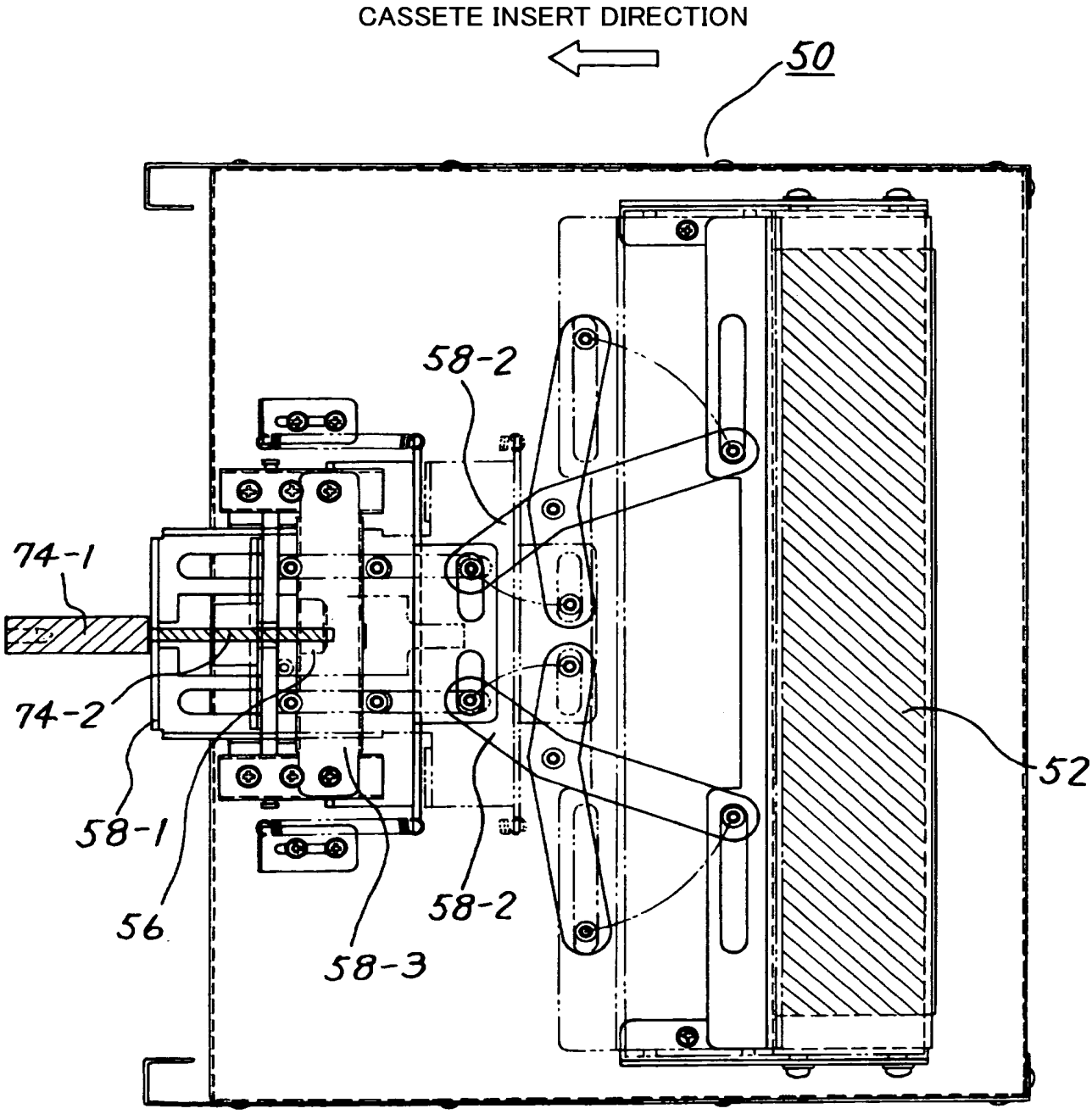


FIG. 17

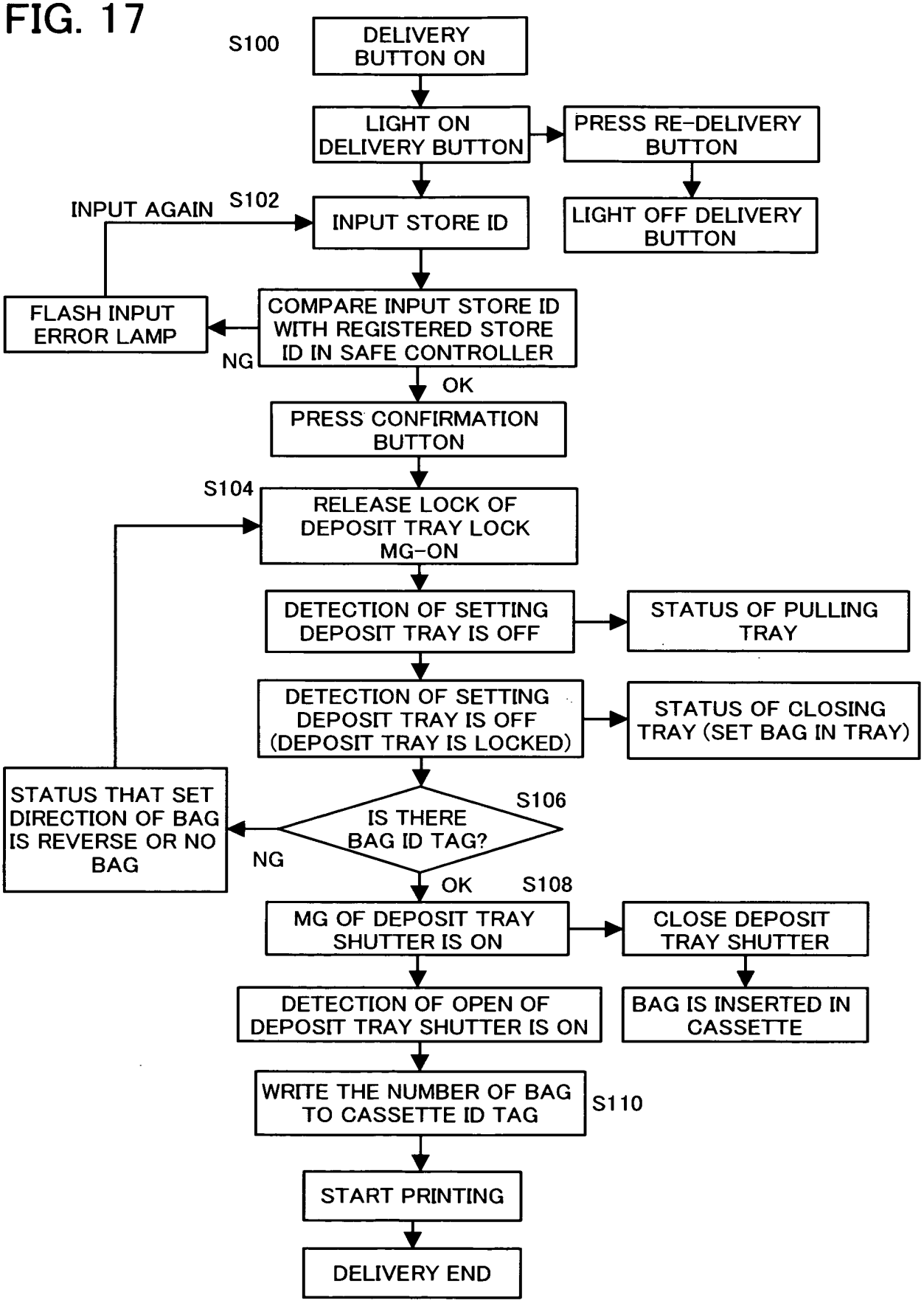

S100
DELIVERY BUTTON ON
LIGHT ON DELIVERY BUTTON
PRESS RE-DELIVERY BUTTON
LIGHT OFF DELIVERY BUTTON
INPUT AGAIN
S102
INPUT STORE ID
FLASH INPUT ERROR LAMP
COMPARE INPUT STORE ID WITH REGISTERED STORE ID IN SAFE CONTROLLER
NG
OK
PRESS CONFIRMATION BUTTON
S104
RELEASE LOCK OF DEPOSIT TRAY LOCK MG-ON
DETECTION OF SETTING DEPOSIT TRAY IS OFF
STATUS OF PULLING TRAY
DETECTION OF SETTING DEPOSIT TRAY IS OFF (DEPOSIT TRAY IS LOCKED)
STATUS OF CLOSING TRAY (SET BAG IN TRAY)
STATUS THAT SET DIRECTION OF BAG IS REVERSE OR NO BAG
S106
IS THERE BAG ID TAG?
NG
OK
S108
MG OF DEPOSIT TRAY SHUTTER IS ON
CLOSE DEPOSIT TRAY SHUTTER
DETECTION OF OPEN OF DEPOSIT TRAY SHUTTER IS ON
BAG IS INSERTED IN CASSETTE
WRITE THE NUMBER OF BAG TO CASSETTE ID TAG
S110
START PRINTING
DELIVERY END

FIG. 18

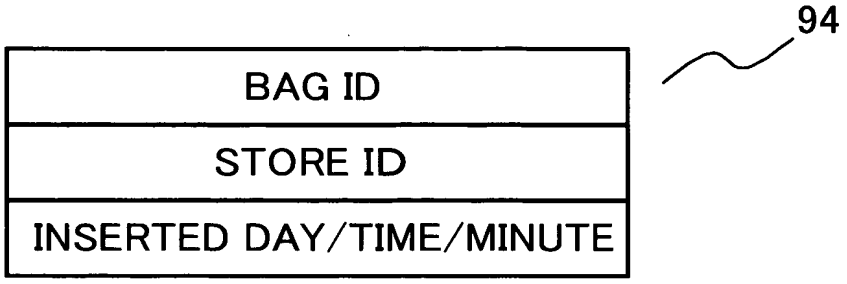

94
BAG ID
STORE ID
INSERTED DAY/TIME/MINUTE

FIG. 19

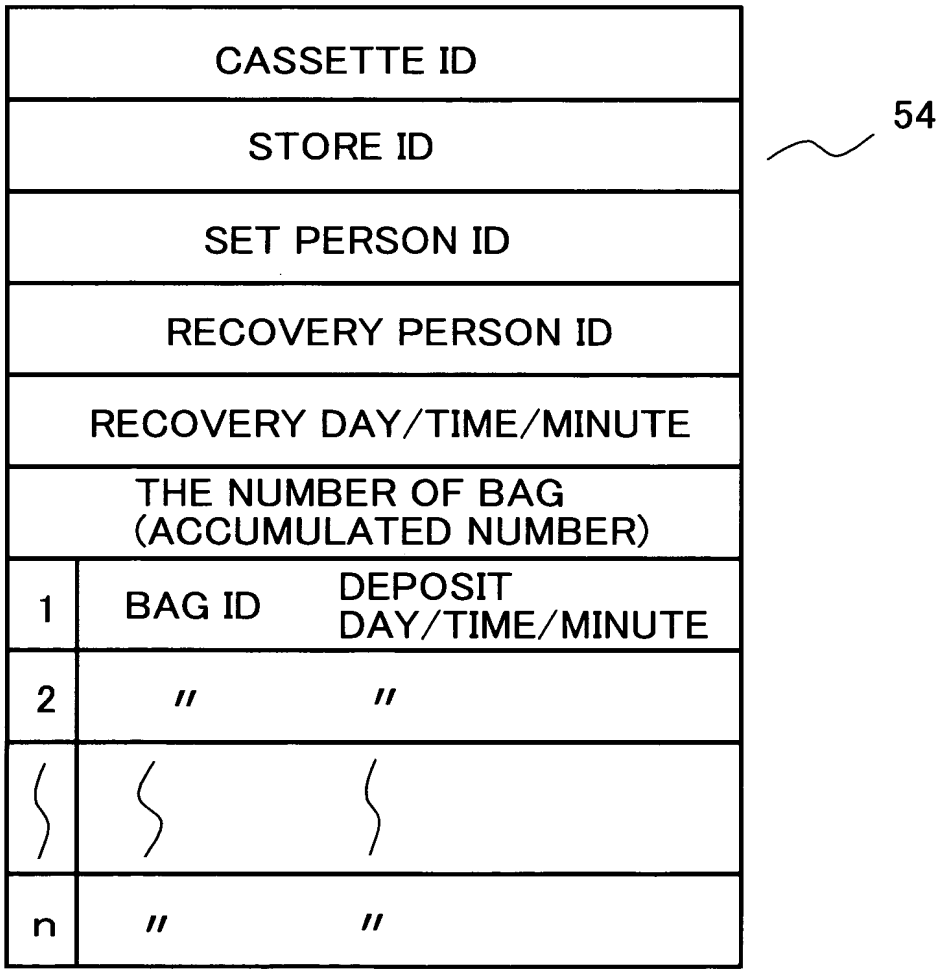

54
CASSETTE ID
STORE ID
SET PERSON ID
RECOVERY PERSON ID
RECOVERY DAY/TIME/MINUTE
THE NUMBER OF BAG (ACCUMULATED NUMBER)
1
BAG ID
DEPOSIT DAY/TIME/MINUTE
2
〃
〃
n
〃
〃

FIG. 20

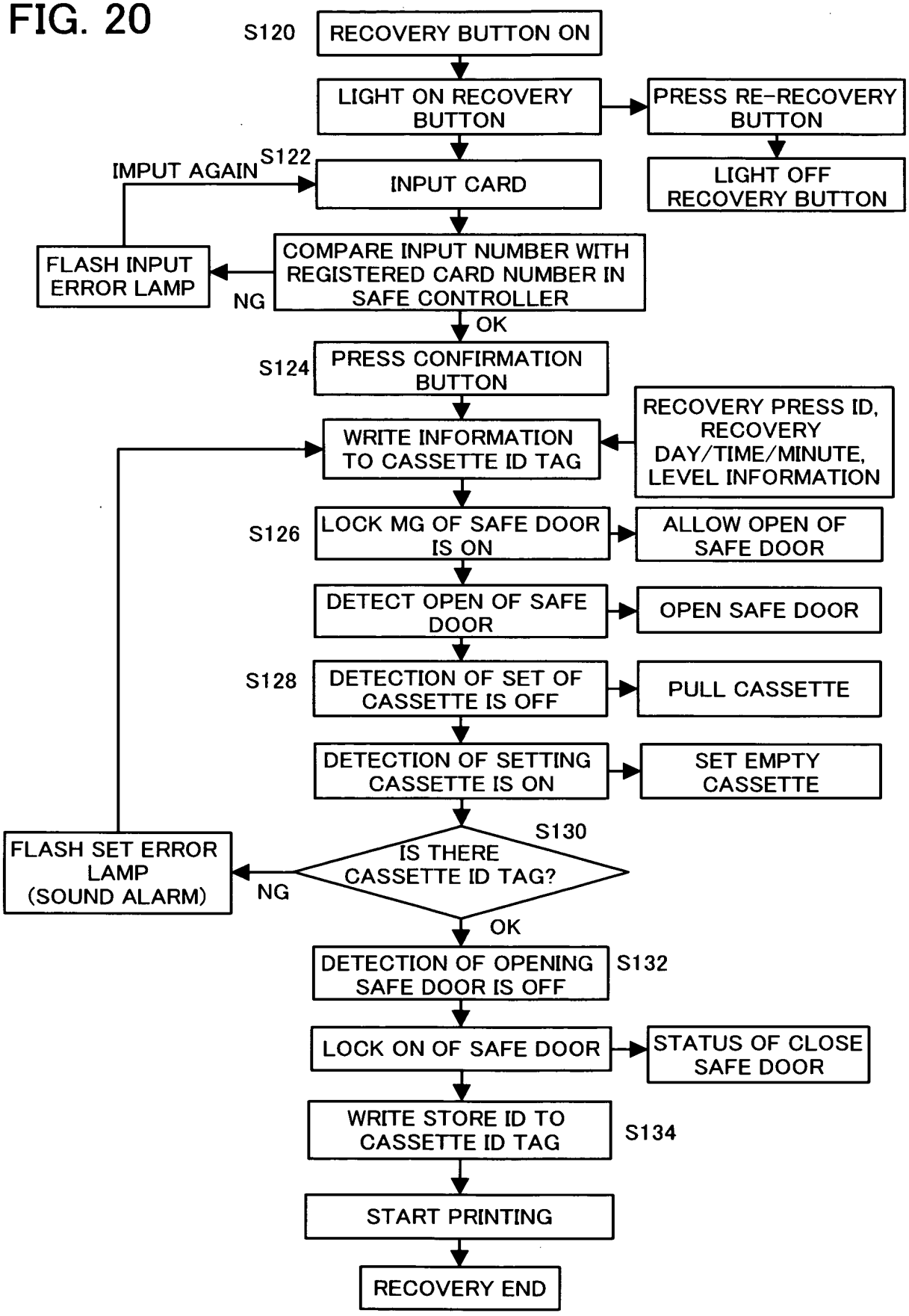
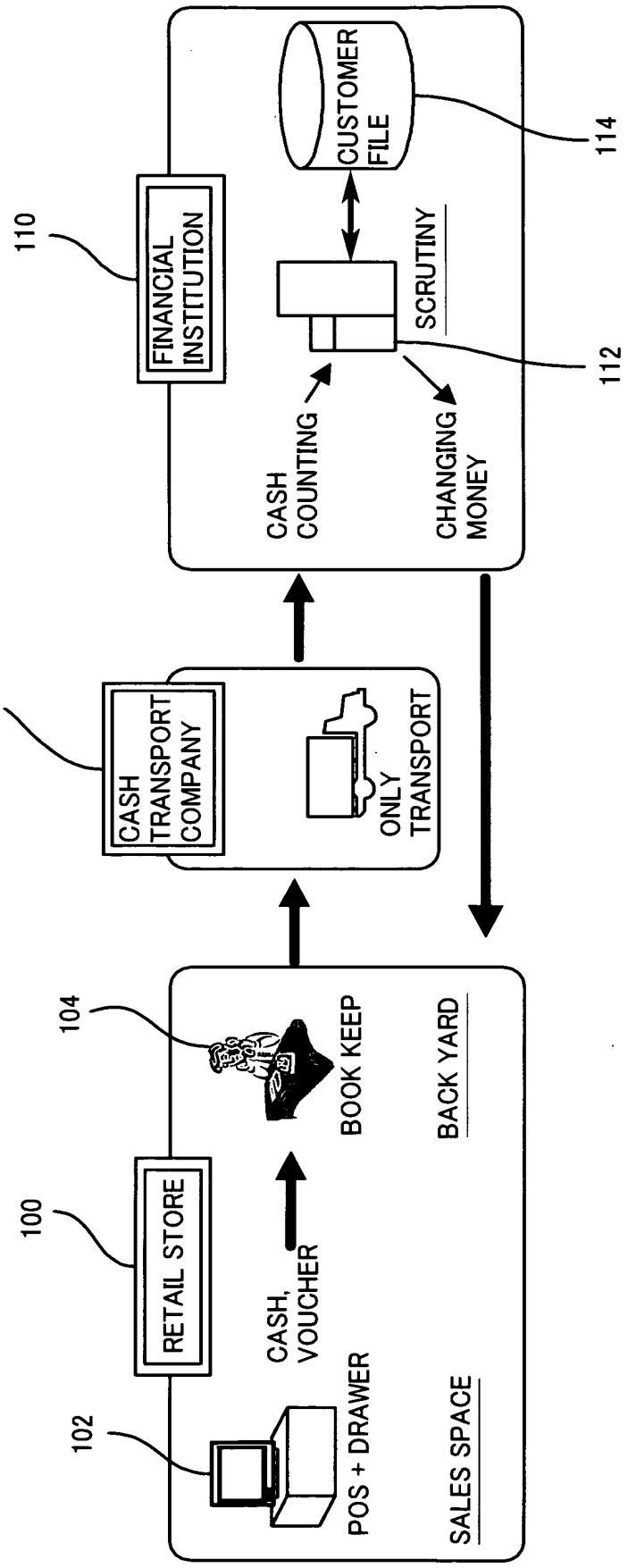

S120
RECOVERY BUTTON ON
LIGHT ON RECOVERY BUTTON
PRESS RE-RECOVERY BUTTON
LIGHT OFF RECOVERY BUTTON
IMPUT AGAIN
S122
INPUT CARD
FLASH INPUT ERROR LAMP
COMPARE INPUT NUMBER WITH REGISTERED CARD NUMBER IN SAFE CONTROLLER
NG
OK
S124
PRESS CONFIRMATION BUTTON
WRITE INFORMATION TO CASSETTE ID TAG
RECOVERY PRESS ID, RECOVERY DAY/TIME/MINUTE, LEVEL INFORMATION
S126
LOCK MG OF SAFE DOOR IS ON
ALLOW OPEN OF SAFE DOOR
DETECT OPEN OF SAFE DOOR
OPEN SAFE DOOR
S128
DETECTION OF SET OF CASSETTE IS OFF
PULL CASSETTE
DETECTION OF SETTING CASSETTE IS ON
SET EMPTY CASSETTE
S130
IS THERE CASSETTE ID TAG?
FLASH SET ERROR LAMP (SOUND ALARM)
NG
OK
DETECTION OF OPENING SAFE DOOR IS OFF
S132
LOCK ON OF SAFE DOOR
STATUS OF CLOSE SAFE DOOR
WRITE STORE ID TO CASSETTE ID TAG
S134
START PRINTING
RECOVERY END

FIG. 21

PRIOR ART